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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/047,101 01/17/2002		Daniel P. Carter	219.40000X00	5731		
23838 73	590 12/16/2003	EXAMINER				
KENYON & KENYON 1500 K STREET, N.W., SUITE 700			DUONG,	DUONG, THO V		
WASHINGTO	•	ART UNIT	PAPER NUMBER			
			3743			
			DATE MAILED: 12/16/2003	13		

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Application No.	Applicant(s)			
Office Action Summary		10/047,101	CARTER ET AL.				
		Examiner	Art Unit				
		Tho v Duong	3743				
Period fo	The MAILING DATE of this commun or Reply	ication appe	ears on the cover sheet with the	correspondence ac	ddress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (5) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)[🛛	Responsive to communication(s) file	ed on <u>23 Se</u>	ptember 2003.				
2a)⊠	This action is FINAL . 2	b) This a	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	I)⊠ Claim(s) <u>1-42</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>4-35</u> is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.						
·	Claim(s) <u>1-3 and 36-42</u> is/are rejected	ed.					
·	Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restrict	tion and/or	election requirement.				
Applicati	on Papers						
•	The specification is objected to by the				·		
10)	The drawing(s) filed on is/are:	•					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including						
•	The oath or declaration is objected to	by the Exa	aminer. Note the attached Oπi	e Action or form P	10-152.		
•	ınder 35 U.S.C. §§ 119 and 120						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 							
 a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 							
reference was included in the mist sentence of the specification of in all Application Data Sheet. or OFN 1.76.							
Attachment(s)							
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449) P		4) Interview Summa 5) Notice of Informa . 6) Other: .				

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DETAILED ACTION

Response to Arguments

Applicant's arguments filed 9/23/2003 have been fully considered but they are not persuasive. Applicant's argument that Mira neither teaches nor suggests both the curved and bent configuration of the claimed fin, has been very carefully considered but is not deemed to be persuasive. See the rejection as bellow. The claims as amended and added are also moot in view of the new ground of rejection.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the claimed subject matter of "at least one portion of each of said fins is bent along its height" and "the fins being bent along their height" are not provided in the specification.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3 and 36-42 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The subject matters of "at least one portion of said fin is bent along its

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height" and "the fins being bent along their height" was not supported by the disclosure. It appears in figure 7 that the upper portion (208) does not bent along the fin height but rather bent at an intersection between the upper portions (208) and the vertical portions (207).

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Claims 1-3,36-38 and 40-42 are further rejected as can be best understood by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

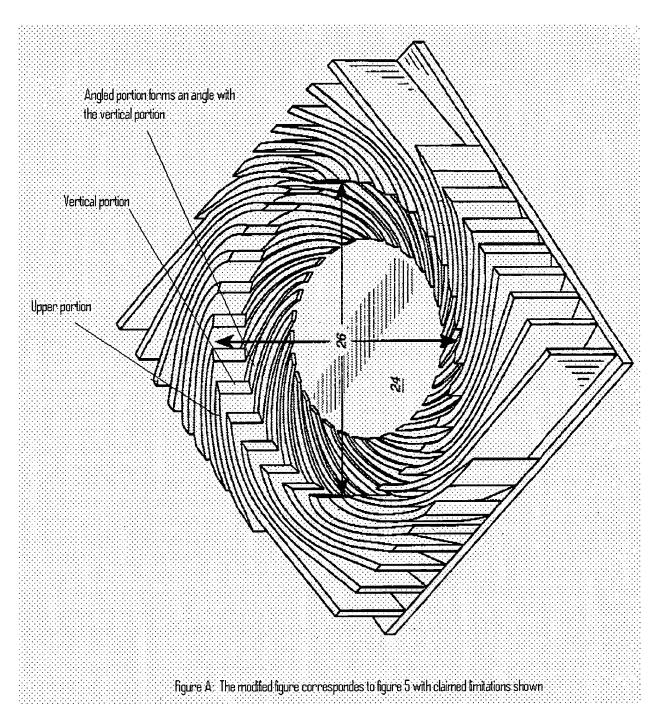
A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3,36-38 and 40-42 are rejected under 35 U.S.C. 102(b) as being anticipated by Mira (US 5,661,638). Mira discloses (figures 5-6 and column 3, line 56-column 4, line 2) a heat sink comprising a core (24) having a central axis; and a plurality of cooling fins (22) arranged about the core, wherein the fins (22) extending radially away from the core (24) and the fins (22) has been curved (bent) along its height (the curved portion extending from top to bottom edges of fin) to obtain arc-shaped fins (22) in order to capture at least a part of tangential component of airflow. Mira further discloses (figure 6 and figure A as bellow) that each fin (22) has a vertical portion and an angled portion, which also bent in the same direction. It appears in figure A that the vertical portion and the angled portion form a 90 degrees angle.

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Conclusion

The non-application of art against claim 39 should not be construed as an indication that the claim contains allowable subject matter.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

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Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Tho Duong whose telephone number is (703) 305-0768. The examiner can normally be reached on from 9:30-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennet, can be reached on (703) 308-0101. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

Tho Duong

December 12, 2003

Henry Bennett Supervisory Patent Examiner